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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application, where added material is shown in underlined type, deleted material is shown in ~~strikeout type~~:

Listing of Claims:

Claims 1-10 (Canceled)

11. (Currently Amended) A system acquisition module for facilitating PN code searching, comprising:

a PN sequence generator configurable to generate a plurality of PN sequences; and

a plurality of computational units configurable to ~~perform a first function of correlating~~ each received signal sample of a plurality of received signal samples with a corresponding PN sequence of the plurality of PN sequences and further configurable to ~~perform a second function~~ provide other hardware resources; and

wherein a number of computational units from the plurality of computational units ~~which are~~ selectively configured to correlate the plurality of received signal samples with the plurality of PN sequences, the number of computational units ~~depends~~ depending upon the availability of the plurality of computational units from providing the other hardware resources.

12. (Currently Amended) The system acquisition module according to claim 11 wherein the plurality of received signal samples is received in a sequential manner, ~~[[;]] wherein~~ the plurality of PN sequences is generated in a sequential order, and starting positions of any two adjacent PN sequences are offset by a chip.

13. (Currently Amended) The system acquisition module according to claim 12 wherein ~~the plurality of PN sequences includes a first PN sequence and a second PN sequence immediately following the first PN sequence; and wherein~~ the start of each successive one of the second plurality of PN sequences is determined by shifting ~~[the first]~~ an immediately preceding one of the PN sequences.

14. (Original) The system acquisition module according to claim 12 wherein each of the plurality

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of received signal samples is correlated with the corresponding one of the plurality of PN sequences as soon as each of the plurality of received signal samples is received.

15. (Currently Amended) The system acquisition module according to claim 14 wherein, after correlating each received signal sample with a corresponding PN sequence, the received signal sample is discarded.

16. (Original) The system acquisition module according to claim 11 wherein each of the plurality of PN sequences has M components; and wherein the number of computational units selectively configured to correlate the plurality of received signal samples with the plurality of PN sequences is M.

17. (Previously presented) The system acquisition module according to claim 11 wherein the number of computational units which are selectively configured to correlate the plurality of received signal samples with the plurality of PN sequences is capable of being reduced when a clock rate driving the plurality of computational units is increased.

18. (Previously presented) The system acquisition module according to claim 11 wherein the number of computational units which are selectively configured to correlate the plurality of received signal samples with the plurality of PN sequences is capable of being reduced when the availability of the plurality of computational units is reduced.

19. (Canceled)

20. (Original) The system acquisition module according to claim 11 wherein the system acquisition module is located in a communication device.

21. (Original) The system acquisition module according to claim 20 wherein the communication device is a mobile phone for use in a CDMA communication system.

Claims 22-31 (Canceled)

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32. (Currently Amended) A communication device having a system acquisition function, comprising:

a receiver configured to receive a plurality of signals;

a plurality of configurable computational units selectively configurable to implement a PN sequence generator to generate a plurality of PN sequences, ~~and further selectively configurable to implement a correlator to correlate the plurality of signals with the plurality of PN sequences, and other hardware resources;~~

wherein ~~the~~ a number of configurable computational units of the plurality of configurable computation units is selectively configured to implement the sequence generator and the correlator, the number of the configurable computational units depend[[s]]ing upon availability of the plurality of configurable computational units from providing the other hardware resources.

33. (Currently Amended) The communication device according to claim 32 wherein:

the receiver provides the plurality of signals as a plurality of received signal samples is received in a sequential manner;

~~wherein~~ the plurality of PN sequences is generated in a sequential order; and

~~wherein~~ each of the plurality of signal[[s]] samples is correlated with a corresponding one of the plurality of PN sequences.

34. (Currently Amended) The communication device according to claim 33 wherein ~~the plurality of PN sequences includes a first PN sequence and a second PN sequence immediately following the first PN sequence; and wherein the start of each successive one of the second plurality of PN sequences is determined by shifting the first~~ an immediately preceding one of the PN sequences.

35. (Currently Amended) The communication device according to claim ~~32~~ 33 wherein each of the plurality of signal[[s]] samples is correlated with the corresponding one of the plurality of PN sequences as soon as ~~each of the plurality of signal[[s]] sample~~ is received.

36. (Currently Amended) The communication device according to claim 35 wherein, after correlating ~~[[a]]~~ each signal sample with a corresponding PN sequence, the signal sample is discarded.

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37. (Currently Amended) The communication device according to claim 32 wherein each of the plurality of PN sequences has M chips components and wherein the number of configurable computational units ~~[to be]~~ selectively ~~[used]~~ configured to implement the correlator ~~to correlate the plurality of signals with the plurality of PN sequences~~ is M or smaller.

38. (Currently Amended) The communication device according to claim 32 wherein the number of configurable computational units ~~which are to be selectively used to implement the correlator to correlate the plurality of signals with the plurality of PN sequences~~ is capable of being reduced when a clock rate driving the plurality of configurable computational units is increased.

39. (Currently Amended) The communication device according to claim 32 wherein the number of configurable computational units ~~which are to be selectively used to implement the correlator to correlate the plurality of signals with the plurality of PN sequences~~ is capable of being reduced when the availability of the plurality of configurable computational units is reduced.

40. (Currently Amended) The communication device according to claim 32 wherein one or more of the ~~[plurality]~~ number of configurable computational units are selectively configurable to implement the other hardware resources ~~another function~~ when the system acquisition function is not needed to implement the sequence generator or the correlator.

41. (Original) The communication device according to claim 32 wherein the communication device is a mobile phone for use in a CDMA communication system.

Claims 42-58 (Canceled)

59. (New) A method for implementing a system acquisition function, comprising:
receiving a plurality of signals;
selectively configuring a plurality of configurable computational units for generating a plurality of PN sequences, for correlating the plurality of signals with the plurality of PN sequences, and for providing other hardware resources;
wherein a number of configurable computational units is selectively configured for generating a plurality of PN sequences and for correlating the plurality of signals with the plurality

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of PN sequences, the number of the configurable computational units depending upon availability of the plurality of configurable computational units from providing the other hardware resources.

60. (New) The method of Claim 59 wherein:

the plurality of signals is provided as a plurality of received signal samples in a sequential manner;

the plurality of PN sequences is generated in a sequential order; and

each of the plurality of signal samples is correlated with a corresponding one of the plurality of PN sequences.

61. (New) The method of Claim 60 further comprising determining the start of each successive one of the plurality of PN sequences by shifting an immediately preceding one of the PN sequences.

62. (New) The method of Claim 61 wherein the correlating comprises correlating each of the plurality of signal samples with the corresponding one of the plurality of PN sequences as soon as the signal sample is received.

63. (New) The method of Claim 62 further comprising discarding each signal sample after correlating the signal sample with a corresponding PN sequence.

64. (New) The method of Claim 59, wherein each of the plurality of PN sequences has M chips and the number of configurable computational units selectively configured for correlating is M or smaller.

65. (New) The method of Claim 59, further comprising increasing the clock rate driving the plurality of configurable computational units and, once the clock rate is increased, reducing the number of configurable computational units.

66. (New) The method of Claim 59, further comprising reducing the number of configurable computational units when the availability of the plurality of configurable computational units is reduced.

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67. (New) The method of Claim 59, selectively configuring one or more of the number of configurable computational units for providing the other hardware resources when not needed for generating the plurality of PN sequences or for correlating the plurality of signals.

68. (New) The method of Claim 59, wherein the method is utilized in a mobile phone for use in a CDMA communication system.